



PCT09

RAW SEQUENCE LISTING

DATE: 08/01/2002

PATENT APPLICATION: US/09/936,680

TIME: 12:56:00

Input Set : N:\Crif3\07292002\I936680.raw

Output Set: N:\CRF3\08012002\I936680.raw

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1 <110> APPLICANT: Warner-Lambert Company
2 <120> TITLE OF INVENTION: A novel family of beta sub-unit proteins from a
3     voltage-gated sodium channel, nucleic acids encoding
4     them and therapeutic or diagnostic uses thereof
5 <130> FILE REFERENCE: 5977-01-EJB
6 <140> CURRENT APPLICATION NUMBER: US/09/936,680
7 <141> CURRENT FILING DATE: 2002-06-10
8 <150> PRIOR APPLICATION NUMBER: PCT/EP00/01783
9 <151> PRIOR FILING DATE: 2000-02-27
10 <150> PRIOR APPLICATION NUMBER: 60/129,473
11 <151> PRIOR FILING DATE: 1999-04-15
12 <160> NUMBER OF SEQ ID NOS: 47
13 <170> SOFTWARE: PatentIn Ver. 2.1
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 215
17 <212> TYPE: PRT
18 <213> ORGANISM: Rat
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22     Tyr Trp Val Arg Val Cys Phe Pro Val Cys Val Glu Val Pro Ser Glu
23             20             25             30
24     Thr Glu Ala Val Gln Gly Asn Pro Met Lys Leu Arg Cys Ile Ser Cys
25             35             40             45
26     Met Lys Arg Glu Glu Val Glu Ala Thr Thr Val Val Glu Trp Phe Tyr
27             50             55             60
28     Arg Pro Glu Gly Gly Lys Asp Phe Leu Ile Tyr Glu Tyr Arg Asn Gly
29             65             70             75             80
30     His Gln Glu Val Glu Ser Pro Phe Gln Gly Arg Leu Gln Trp Asn Gly
31             85             90             95
32     Ser Lys Asp Leu Gln Asp Val Ser Ile Thr Val Leu Asn Val Thr Leu
33             100            105            110
34     Asn Asp Ser Gly Leu Tyr Thr Cys Asn Val Ser Arg Glu Phe Glu Phe
35             115            120            125
36     Glu Ala His Arg Pro Phe Val Lys Thr Thr Arg Leu Ile Pro Leu Arg
37             130            135            140
38     Val Thr Glu Glu Ala Gly Glu Asp Phe Thr Ser Val Val Ser Glu Ile
39             145            150            155            160
40     Met Met Tyr Ile Leu Leu Val Phe Leu Thr Leu Trp Leu Phe Ile Glu
41             165            170            175
42     Met Ile Tyr Cys Tyr Arg Lys Val Ser Lys Ala Glu Glu Ala Ala Gln
43             180            185            190
44     Glu Asn Ala Ser Asp Tyr Leu Ala Ile Pro Ser Glu Asn Lys Glu Asn

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56      Tyr Trp Val Ser Val Cys Phe Pro Val Cys Val Glu Val Pro Ser Glu
57          20          25          30
58      Thr Glu Ala Val Gln Gly Asn Pro Met Lys Leu Arg Cys Ile Ser Cys
59          35          40          45
60      Met Lys Arg Glu Glu Val Glu Ala Thr Thr Val Val Glu Trp Phe Tyr
61          50          55          60
62      Arg Pro Glu Gly Gly Lys Asp Phe Leu Ile Tyr Glu Tyr Arg Asn Gly
63          65          70          75          80
64      His Gln Glu Val Glu Ser Pro Phe Gln Gly Arg Leu Gln Trp Asn Gly
65          85          90          95
66      Ser Lys Asp Leu Gln Asp Val Ser Ile Thr Val Leu Asn Val Thr Leu
67          100          105          110
68      Asn Asp Ser Gly Leu Tyr Thr Cys Asn Val Ser Arg Glu Phe Glu Phe
69          115          120          125
70      Glu Ala His Arg Pro Phe Val Lys Thr Thr Arg Leu Ile Pro Leu Arg
71          130          135          140
72      Val Thr Glu Glu Ala Gly Glu Asp Phe Thr Ser Val Val Ser Glu Ile
73          145          150          155          160
74      Met Met Tyr Ile Leu Leu Val Phe Leu Thr Leu Trp Leu Leu Ile Glu
75          165          170          175
76      Met Ile Tyr Cys Tyr Arg Lys Val Ser Lys Ala Glu Glu Ala Ala Gln
77          180          185          190
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84 <211> LENGTH: 2220
85 <212> TYPE: DNA
86 <213> ORGANISM: Rat
87 <400> SEQUENCE: 3
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90      tcacccaccc caccggaggt cccacctctt tccacccctg aaggacctcc tgtgagcccg 180
91      ggaccctgtg tacaggactg aagtggaaaca aattctgtag cccagacgac ggctggagtg 240
92      gggacacgcc caactgaaga agcctgcccc gccgtagaag cccgagatcc tgagtctcgg 300
93      tggattgaag tcgttgtccc tgggggaggc aagagcttca gaaatcgctt acggtggaaa 360
94      agatgcctgc cttaacaga ttgcttcccc tagcttctct agtgcctcct tactgggtca 420
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98  gccaccagga agtggagagc cccttccaag gccgtctgca gtggaatggg agcaaagacc 660
99  tgcaggacgt atccatcact gtaactcaatg tcaactttgaa tgactctggc ctctacacat 720
100 gcaatgtgtc cagggagttc gaattcgagg cacacaggcc ttttgtgaag accacgagac 780
101 tgataccttt gcgagtcact gaagaggcgg gagaagactt caccctccgtg gtctcggaag 840
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103 gctacagaaa ggtctctaag gccgaagagg cagcacagga aaatgcgtct gactaccttg 960
104 ctatcccttc agagaacaag gagaactctg tggtaacctg ggaggaataa tgtggtgtga 1020
105 cttgaggtga tgtacacagg catctggagg ggtgatctga gtgctgagg gtggtatct 1080
106 cccagttcag tgaatgccag aatatcagga agtgcaccag gtgtcccaac acatccatct 1140
107 tttctattca tcaaccacca acccaatgtg agattttcac ctgacttccg aactctatca 1200
108 gaactctaca catctttacc ttgcctgaac cgaagagcca acatctatct ctacacggac 1260
109 taaacctcac tctgttcttg ctccaacca agtaactccc aacttaacta gaggttgttc 1320
110 ctatgttcca aatgatttag acaagtactg gagagtagta ttacctctgc cctgactgtc 1380
111 tgtgactggg tcattctcca ctgcagcaaa aggatggata taaatcgga gaaagccctg 1440
112 actagtttgt cttaaagcca aagcgtgcca cgtacgtact ttgattcatt gaagtcagtt 1500
113 tttctgtctt ctcagagcgc cagaaagcat gccctaatg cttgcaggga catcatctgt 1560
114 gtgcactgga acgctttctg gagctcagtg tttggaggct gtatcccat aatcctgaag 1620
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118 acaggaggaa actgagactc acaaacctac actccctggg atgagaggta tttttgagga 1860
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121 ggaaaccagg taagaaaaca cagacggcat gagatagact tcaggatttc acacaaagat 2040
122 ttgtgaatct gaagcactct ccaggagaga cggcaccgga gggcaatata tctgtgatga 2100
123 aaaaatggtt tagtctgaaa tggacagtca acagagagac aaagatgggc gtgtagcttc 2160
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133 gcgggcgcgg agcggctgat cggtccctc gaactgggga ggtccagtg ggtcgcttag 180
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136 aaagaatctg agagggcgca gtccttgacc gagggaaatc ctctgtgtag ccttggaaag 360
137 cgccagcccc agaagatgcc tgccttcaat agattgtttc cctggcttc tctcgtgctt 420
138 atctactggg tcagtgtctg ctccctgtg tgtgtggaag tgccctcgga gacggaggcc 480
139 gtgcagggca acccatgaa gctgcgtctc atctcctgca tgaagagaga ggaggtggag 540
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144 aagaacgagc ggctgatccc cctaagagtc accgaggagg ctggagagga cttcacctct 840
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146      gagatgatat attgctacag aaaggtctca aaagccgaag aggcagccca agaaaacgcg 960
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148      tagaacagga gcagtgtgac atgaggtggc ctgaacacct gagggactgg acatcccatg 1080
149      ttcagcaatg tcaatggcat caggagggcg cccaagggc cccatcgctt cccttcatgc 1140
150      atccattgtt ctgttcattc attcatccat acatccacct gcctctgagc ttccacctct 1200
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166 <212> TYPE: PRT
167 <213> ORGANISM: Rat
168 <400> SEQUENCE: 6
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175 <211> LENGTH: 19
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184 <211> LENGTH: 19
185 <212> TYPE: PRT
186 <213> ORGANISM: Rat
187 <400> SEQUENCE: 8
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190      Tyr Trp Val
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193 <211> LENGTH: 12
194 <212> TYPE: PRT
195 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 9
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198      1                               5                               10
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211 <213> ORGANISM: Homo sapiens
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213     Phe Pro Leu Ala Ser Leu Val Leu Ile Tyr Trp Val Ser Val Cys
214         1             5             10             15
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217 <211> LENGTH: 15
218 <212> TYPE: PRT
219 <213> ORGANISM: Rat
220 <400> SEQUENCE: 12
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234 <212> TYPE: PRT
235 <213> ORGANISM: Rat
236 <400> SEQUENCE: 14
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249 <211> LENGTH: 11
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251 <213> ORGANISM: Rat
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VERIFICATION SUMMARY

DATE: 08/01/2002

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Input Set : N:\Crf3\07292002\I936680.raw

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